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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,318	02/01/2000	Ye Gu	3382-53698	6047

7590 07/25/2003
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EXAMINER

PRIETO, BEATRIZ

ART UNIT	PAPER NUMBER
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2142

DATE MAILED: 07/25/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/496,318

Applicant(s) *P26*

GU ET AL

Examiner

B. Prieto

Art Unit

2142

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 May 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) 1-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 18-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other: _____

DETAILED ACTION

1. This communication is in response to election requirement filed 05/15/03, applicant has elected that claims 1-17 be withdrawn from consideration. Claims 18-24 are hereby set forth for examination.
2. Drawings have been reviewed/approved by the Draftsperson.
3. It is noted that the disclosure contains an embedded hyperlink and/or other form of browser-executable code. It is understood that the hyperlinks and/or other forms of browser-executable codes are part of applicant's invention and are necessary to have them included in the patent application in order to comply with the requirements of 35 U.S.C.112, first paragraph, and that applicant does not intend to have these hyperlinks be active links. The Office will disable these hyperlinks when preparing the text to be loaded onto the USPTO web database (see MPEP § 608.01).
4. Applicant's traversal of election/restriction requirement is noted. However, claims 1-2 may be classified in 709/220, claims 3-17 may be classified in 709/230 and claims 18-24 may be classified in 709/313.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews et. al. (Andrews) U.S. Patent No. 5,835,723 in view of Shaio U.S. Patent No. 6,487,167 in view of Hammer et. al. (Hammer) U.S. Patent No. 5,960,439 in further view of Wanderer et. al. (Wanderer) U.S. Patent No. 5,491,796.

Regarding claim 18, Andrew teaches substantial features of the invention as claimed, teaching,

allocation mode ("addressing means") (col 2/lines 30-32) for selecting (Fig. 1, step 102) an address by a node ("computing device") (col 2/lines 1-2) of a reserved range of addresses (col 4/lines 30-37) including,

sending a message (Fig. 1, step 104) containing the selected address on the network (col 2/lines 2-7, col 4/lines 38-40), said the network is a peer-to-peer ("ad hoc") network, i.e. network entities are configured to request and response (col 4/lines 26-60),

if no response to said message containing the selected address is received, assigning the selected address to the computing device (Fig. 1, step 114, 116); however does not explicitly teach a broadcast message announcing an address assignment;

Shao teaches a message on a communication link of an peer-to-peer (ad hoc) network environment, which advertises the IP address of one computing device to its peer (Shao: col 2/lines 62-col 3/line 17); however the above-mentioned prior art does not teach does not explicitly teach inquiring the device type of a computing device;

Hamner teaches initiating (312) an inquiry ("discovery message") on the network for a device type of the computing device (Hamner: col 5/lines 54-58, col 6/lines 18-29, poll for a specific device type, col 6/lines 49-59), said inquiry performed by either the client or server computing devices on the network (10), i.e. peer-to-peer network (Hamner: col 5/lines 63-67); and sending a response message responsive to the discovery message identifying the computing device (Hamner: col 6/lines 18-29); however the above mentioned prior art do not explicitly teach wherein responsive to a ("description") request received by the computing device on a network for a ("description") message defining interaction via messages ("data messaging") with the computing device to remotely operate the computing device over the network;

Wanderer teaches responsive to poll request received by the computing device for attributes which may be viewed and are defined by a file (12) ("message") defining user-selectable interactions options (col 3/lines 53-61) associated with available functions for remotely configuring (operating) the computing device over the network (col 2/lines 55-61, col 3/lines 48-61), the message defines interaction component (col 9/lines 15-20) for communicating with the computing device;

It would have been obvious to one ordinary skilled in the art at the time the invention was made to combine the teachings of Shao for sending a broadcast message announcing an address assignment, for use with systems using an IP based protocol. Motivation would be to complement the drawbacks/disadvantages of the know art that Andrew attempts to resolve such enabling a host to obtain and reserve exclusive use of a unique IP address with Shao means that support obtaining a unique and reserved IP address. Further it would have been obvious to one ordinary skilled in the art at the time the invention was made to include Hamner teaches for inquiring for a device type of a computing device.

Motivation would provide the system with a more flexible, device oriented perspective of the device on the network, as suggested by Hamner for operate the computing devices over the network supported by a description file that defines the interaction with the computing device without requiring the user to have extensive knowledge of the network. Further it would have been obvious to one ordinary skilled in the art at the time the invention was made acquire information that defines the interaction with a computing device, as taught by Wanderer, motivation would be to provide a graphical view of the device remotely on the Andrew environment, as interactive objects, providing the execution of corresponding operations associated with the computing device.

Regarding claim 19, ("description message") information contained ("presentation") data defining user interface (Wanderer: col 9/lines 15-29, define graphical view and user interactions, col 3/lines 47-56) for remote presenting on a computer ("another computer device") for remotely managing the computing device (Wanderer: col 3/lines 31-35).

Regarding claim 20, description message contains a reference, relationship or correlation ("link") to a ("style sheet") data for defining unrelated or independent ("separate") views of the presentation data on said computing device (Wanderer: col 9/lines 15-29, col 3/lines 47-56).

7. Claim 21-24 are Andrews-Shaio-Hammer in view of Wanderer et. al. (Wanderer) U.S. Patent No. 5,491,796 in further view of Hemphill et. al. (Hemphill) U.S. Patent No. 6,167,448

Regarding claim 21, however the above mentioned prior art do not explicitly teach wherein responsive to a description request received by the computing device for sending a description message formatted in a markup language defining interaction via data messaging with the computing device to remotely operate the computing device over the network;

Hemphill teaches a system/method for remotely manage a computing device including, a computing (managed) device (104, col 3/lines 15-28) configure to receive a request or ping (col 4/lines 32-57), wherein responsive to said request events the managed device using an event notification logic, generates a event notification message which includes (event related) information written using a markup language (e.g. XML) (abstract), the message upon execution defined desired actions in response to the particular management event (col 1/lines 53-65), the interaction or events include discovered devices, device status, that is actively monitored, enable the management system to remotely manage (operate) the computing device over the network to which it is coupled from a central remote location by

a management system via a standard data messaging protocol (e.g. SNMP or DMI) (col 1/lines 10-31) for viewing by a browser (col 4/lines 11-17).

It would have been obvious to one ordinary skilled in the art at the time the invention was made to include Hemphill's teachings for sending a message formatted in a markup language, responsive to a request received by the computing device, said message defining interaction via interface or protocol ("data messaging") with the computing device to remotely operate the computing device over the network, motivation would be to enable a more flexible mechanism for remotely managing a computing device over a network independently of the data messaging used by the computing device.

Regarding claim 22, response comprises a reference, relationship or correlation ("link") to the description message (Wanderer: col 3/lines 48-61, col 2/lines 55-61, col 3/lines 48-61, and col 9/lines 15-20).

Regarding claim 23, response has a device type identifier of the computing device (Hamner: Fig. 5, element 602).

Regarding claim 24, announcement message has an identifier ("name") of the computing device (Shaio, col 3/lines 17-20).

Pertinent Prior Art:

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure; pertinence is presented in accordance with to MPEP§ 707.05. Copies of documents cited will be provided as set forth in MPEP§ 707.05(a):

A. Network Working Group: Request for Comments (2563): DHCP Option to Disable Stateless Auto-Configuration in IPV4 Clients, Troll, R., @Home Network, May 1999.

Troll discloses self-assigning an address for the computing device on an ad hoc network by selecting an address which will allow the computing device to communicate on the ad hoc network, wherein in the absence of a central configuration mechanism (DHCP), some OS's are automatically choosing a link-local IP address which will allow them to communicate only with other hosts on the same link, thereby describes a mechanism by the client is configure to generate an IP address it's own. The method describes a method by which DHCP clients will be able to determine whether or not the network is being centrally administrated, allowing it to intelligently determine whether or not it should assign itself a "link-local" address, thereby, the client node may automatically and selectively assign itself an IP address, and have full connectivity with other nodes on the local wire.

B. Internet Eng. Task Force (Internet Draft): Simple Service Discovery Protocol/1.0, Cai, et. al., Microsoft Corporation, April 1999, pages 1-10.

Cai et. al. disclose wherein the Simple Service Discovery Protocol (SSDP) provides a mechanism where by network clients, can discover desired network services. SSDP uses HTTP over multicast and unicast UDP to provide two functions: OPTIONS and ANNOUNCE. OPTIONS is used to determine if a desired network service exists on the network. ANNOUNCE is used by network services to announce their existence.

C. Network Working Group: Request for Comments (1048): BOOTP Vender Information Extensions, Prindeville, P., McGill University, Feb 1988, pages 1-7.

Prindeville discloses Bootstrap Protocol (BOOTP), as a UDP/IP-based protocol that allows a booting host to configure itself dynamically, and more significantly, without user supervision, providing a means to assign a host its IP address, a file from which to download a boot program from some server, that server's address, and (if present) the address of an Internet gateway. The multicast approach has the following advantages over the BOOTP approach, is that it eliminates dependency on a third party (the BOOTP server) that may be temporarily unavailable or whose database may be incorrect or incomplete.

D. U.S. Patent No. 6,243,749 (06/2001)

Sitaraman et. al. teaches broadcast announcement message on a broadcast communication channel informing of a computing device's assigned address; broadcasts the information regarding the newly assigned IP address to each subscribing DNS server, the broadcasting may take the form of sending an allocation event message throughout the network containing the appropriate information.

E. U.S. Patent No. 6,115,545 (09/2000)

Mellquist teaches selecting an address from a reserved range of addresses.

F. U.S. Patent No. 6,130,892 (10/2000)

Short et. al. teach a promiscuous mode entered upon having no available DHCP service on the network from which a computing device (10) passively is able to learn how the network is configured and enables it to elect to use an unused IP address. If that IP address become used by another device, it will switch over to another unused IP address.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prieto, B. whose telephone number is (703) 305-0750. The Examiner can normally be reached on Monday-Friday from 6:00 to 3:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, Mark R. Powell can be reached on (703) 305-9703. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-6606. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800/4700.

Any response to this action should be mailed to:
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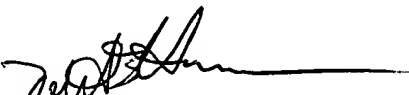
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B. Prieto
TC 2100
Patent Examiner
July 16, 2003


ROBERT B. HARRELL
PRIMARY EXAMINER